## **Student Sheet**

## **WATTAGE RATINGS**

Check four different appliances for their wattage ratings. Using the conversion to kilowatthours(kWh) calculate the electricity usage for each appliance.

Appliance:	
watts/1000 watts/kWh per hour of operation =	_ kWh
Appliance:	
watts/1000 watts/kWh per hour of operation =	_ kWh
Appliance:	
watts/1000 watts/kWh per hour of operation =	_ kWh
Appliance:	
watts/1000 watts/kWh per hour of operation =	_ kWh
Appliance:	
watts/1000 watts/kWh per hour of operation =	kWh

## **ELECTRICAL APPLIANCE ENERGY TABLE**

Appliance Wattage	Kilowatt-hours of	Ounces of Oil	Ounces of Coal
Rating	Electricity Used per	Burned per Hour	Burned per Hour
_	Hour	_	_
10	0.01	0.01	0.13
25	0.025	0.025	0.33
40	0.04	0.4	0.5
60	0.06	0.6	0.8
100	0.1	1	1.33
150	0.15	1.5	2
200	0.2	2	2.66
300	0.3	3	4
500	0.5	5	6.66
750	0.75	7.5	10
1000	1	10	13.33
1500	1.5	15	20
2000	2	20	26.66
5000	5	50	66.66
10000	10	100	133.33

## Student Sheet APPLIANCE ENERGY USE

Think about burning ten 100-watt light bulbs for one hour. That's the amount of electricity equivalent to one kilowatt-hour. Just as you pay for gallons of gas, quarts of milk, and loaves of bread, you pay for kilowatt-hours of electricity.

The chart below shows the average number of kilowatt-hours of electricity that various appliances use.\* If you are interested in how much it costs to operate one of these appliances for a month or a year contact your local utilities company.

	Averag	Average kWh Used		
Kitchen Appliances	<u>Anually</u>	Average kWh Used Monthly		
Range w/self-cleaning oven	1224	102		
Range w/oven	1152	96		
Microwave oven	300	25		
Frying pan	190	16		
Coffee maker	110	9		
Toaster	40	3		
Mixer	10	1		
Food disposer	30	3		
Dishwasher	1560**	130		
	2160	180		
Refrigerator/freezer 16-25 cu ft side-by-side model, automatic defrost				
Refrigerator/freezer 14 cu ft automatic defrost	1800	150		
Refrigerator/freezer 14 cu ft manual defrost	1200	100		
Refrigerator/freezer 17 cu ft, 2-door, high efficiency, automatic defrost	1200	100		
Freezer, 15 cu ft automatic defrost	1200	150		
Freezer, 15 cu ft manual defrost	1800	100		
I aundry Annlianess				
Laundry Appliances	1000	83		
Clothes dryer Clothes washer	624**	52		
Hand iron	150	13		
Halla Iroli	130	13		
Other Appliances				
Quick recovery water heater	5400***	450		
Vacuum cleaner	50	4		
Clock	18	2		
Toothbrush	0.5	0.04		
1 OOUIOI USII	0.3	0.04		